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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,248	02/24/2004	Thi Ngoc Phuong Nguyen	OP-092000394	1198

7590 05/25/2006  
Yi-Wen Tseng  
4331 Stevens Battle Lane  
Fairfax, VA 22033

EXAMINER
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FLORY, CHRISTOPHER A

ART UNIT	PAPER NUMBER
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3762

DATE MAILED: 05/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/784,248

Applicant(s)

NGUYEN, THI NGOC PHUONG

Examiner

Christopher A. Flory

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 24 February 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION*****Specification***

1. The disclosure is objected to because of the following informalities: the specification includes numerous typographical and grammatical errors. On page 1, line 8, "No one, especially woman" should be corrected to read --No one, especially a woman--. On page 1, line 13, "clinic" should be replaced with --clinical--. On page 2, line 3, "without penetration treatment to human body" should be corrected to read --without penetration treatment to **the** human body--. On page 3, line 8, "by nervous system" should read --by **the** nervous system--. The sentence "Muscles provide strength to lead skeleton to complete," starting on page 3, line 8, is incomplete and the meaning is unclear. On page 3, line 24, "these negative aspects of the appearance *is*" should be corrected to read --these negative aspects of the appearance **are**--. On page 6, line 4, "high" should be replaced with --highly--.

Appropriate correction is required.

***Claim Objections***

2. Claim 2 is objected to because of the following informalities: the grammatical structure of the claim makes the meaning unclear and ambiguous. Examiner suggests amending the claim to read either --The apparatus of Claim 1, wherein all sessions are **totally** continuous to obtain a thirty-minute operation cycle-- or --The apparatus of Claim 1, wherein all sessions are continuous to obtain a **single**, thirty-minute operation

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cycle—in order to more clearly point out and distinctly claim the Applicant's invention.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 recites the limitation "the buttons" in the second line of the claim. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 3, 5, 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Minogue et al. (US Patent Publication 2002/0133195).

Regarding claim 1, Minogue et al. shows an electrical impulse apparatus (ABSTRACT; Figure 2) comprising a microprocessor (Fig. 2, signal generator 28 including microprocessor; paragraph [158]); an impulse generator to generate pulsed signals (Fig. 26, pulse generators 90 and 91; paragraph [158]); a switch for inputting operation (Fig. 4, control buttons 62; paragraph [147]); a pad with one surface

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attachable to the skin (Fig. 2, belt 40; or Figs 7-9, adhesive layers 67 and 68 on electrode pad 65; paragraph [142]); and two electrodes mounted on the pad (Fig. 2, electrical contacts 45 and 46 with mounted adhesive electrode foil pads 65).

Regarding the clause that the invention be used for facial massage, such a recitation of intended use does not distinguish over the prior art so long as the prior art satisfies all the claimed structural limitations and is capable of performing said intended use. The electronic stimulating device of Minogue et al. is capable of being used for facial massage, and therefore the claims of the instant application do not distinguish over the Minogue et al. device. *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987)

It is noted that clause reading "thereby an electro-muscle stimulation is applied to facial tissue...and a tenth session with 5Hz and 30 $\mu$ s for continuous two minutes," is a recitation of functional language contained within an apparatus claim. While features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Schreiber*, 128 F.3d 1473, 1477-78, 44 USPQ2d 1429, 1431-32 (Fed. Cir. 1997). *In re Danly*, 263 F.2d 844, 847, 120 USPQ 528, 531 (CCPA 1959). Therefore, because Minogue et al. discloses the structure of the instant application and is inherently capable of delivering stimulation pulses of the claimed frequency, pulse width, and duration (paragraphs [53] through [57] and [88] through [92]) the invention of the instant application does not distinguish over the prior art.

Regarding claim 3, Minogue et al. shows a housing (Fig. 4, signal generator housing 28) with the microprocessor and impulse generator inside (paragraph [158]).

Regarding claim 5, Minogue et al. shows two conductive lines connected between the impulse generator and each electrode (Fig. 6, main and secondary cables 59 and 60, which connect electrodes to the signal generator 28 through electrical contacts 45 and 46 by means of contact jack plug 57).

Regarding claim 7, Minogue et al. discloses the apparatus wherein the switch includes two buttons (Fig. 2, buttons 62) to increase and decrease the strength of the pulse generation (paragraphs [147] and [148]).

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bartelt et al. (US Patent 5,069,211) in view of Barker (US Patent 3,709,228, hereinafter Barker'228), or in view of Cormier et al. (US Patent 5,995,869), or in view of Applicant's admission of prior art (hereinafter Admission).

Regarding claim 1, Bartelt et al. discloses an electrical impulse device (ABSTRACT) comprising a microprocessor (Fig. 1, microprocessor control unit 18); an impulse generator controlled by the microprocessor to generate pulsed signals (column

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3, line 60 through column 4, line 11); a switch for inputting operation (Fig. 1, switches 25, 26 and 28); and two electrodes (Fig. 1, electrodes 32 and 33 or 35 and 36; column 3, lines 55-60; column 9, lines 20-38).

Bartelt et al. discloses the instant invention substantially as claimed except that it does not expressly state that the electrodes be mounted on a pad with one surface attachable to the facial skin. In the same field of endeavor, Barker'228 teaches two electrode discs (Fig. 3, electrodes 40" and 40'") mounted on a pad (rigid resinous plastic insulative body 46) for engagement simultaneously with spaced portions of a user's face (column 4, line 15 through column 5, line 6). It is noted that the electrodes are considered to be attached to the facial skin because they maintain constant electrical contact and are stated to remain in the set positions unless forcibly bent to other positions by a different user (column 5, lines 54-66). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of the Bartelt et al. patent with the attachable electrode pad configuration of the Barker'228 device to provide Bartelt et al. with the same advantages of maintaining constant electrical contact, repeatable use without reconfiguration, and the ability for the structure to fit any facial contour (column 1, lines 63-65). (Motivation to combine provided by Barker'228, column 1, lines 63-65 and column 5, lines 54-66).

Alternatively, in the same problem solving area, Cormier et al. teaches mounting two electrodes (Fig. 1, electrodes 22 and 24) on a pad (lower housing 20) with one surface attachable to the facial skin (body-contacting side 36 of skin-compatible adhesive 30) for the purpose of assuring that the device remains in place on the body

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during normal user activity while permitting reasonable removal after the predetermined wear period (column 10, lines 55-64). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Bartelt et al. with the adhesive electrode pad of the Cormier et al. device to provide the Bartelt et al. system with a means for assuring that the device remain in place on the body during normal user activity while permitting reasonable removal after the predetermined wear period (motivation to combine provided by Cormier et al., column 10, lines 55-64).

Still alternatively, Applicant discloses in Admission that well-known electro-muscle stimulation technology utilizes a conductive pad or electrode to externally apply a current to a muscle or muscle group and thereby cause them to contract (page 3, lines 15-21). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the Bartelt et al. system with a conductive pad as disclosed in Admission to provide the Bartelt et al. device the advantage of causing a desired muscle or group of muscles to contract (motivation to combine provided by Admission, page 3, lines 15-21).

Regarding the clause that the invention be used for facial massage, such a recitation of intended use does not distinguish over the prior art so long as the prior art satisfies all the claimed structural limitations and is capable of performing said intended use. The electronic stimulating device of Bartelt et al. is capable of being used for facial massage, and therefore the claims of the instant application do not distinguish over the Bartelt et al. device. *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987)



It is noted that clause reading "thereby an electro-muscle stimulation is applied to facial tissue...and a tenth session with 5Hz and 30 $\mu$ s for continuous two minutes," is a recitation of functional language contained within an apparatus claim. While features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Schreiber*, 128 F.3d 1473, 1477-78, 44 USPQ2d 1429, 1431-32 (Fed. Cir. 1997). *In re Danly*, 263 F.2d 844, 847, 120 USPQ 528, 531 (CCPA 1959). Therefore, because Bartelt et al. discloses the structure of the instant application and is inherently capable of delivering stimulation pulses of the claimed frequency, pulse width, and duration (column 4, line 30 through column 5, line 13; column 9, lines 30-38) the invention of the instant application does not distinguish over the prior art.

Regarding claim 2, Bartelt et al. discloses a continuous thirty-minute operation cycle (Fig. 6; column 4, lines 16-61).

Regarding claim 3, a housing is an inherent component of any medical device such as the one disclosed in Bartelt et al. which is intended for portable use or use on multiple patients. Further, Bartelt et al. discloses that switches 25 and 26 are attached to the microprocessor and externally actuable (column 3, lines 36-41). Therefore, the instant invention does not distinguish over the prior art of Bartelt et al.

Further regarding claim 3 and regarding claim 4, Bartelt et al. discloses the instant invention substantially as claimed except for the limitation that the pad is located directly on the housing. Cormier et al. teaches a device with a housing (Fig. 1, upper housing 16 and lower housing 20) with the microprocessor and impulse generator inside

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(circuit board assembly 18), and buttons (12) on the surface thereof; wherein the pad is located directly on the housing (lower housing 20 with electrodes 22 and 24 and adhesive backing 30 are considered to be the 'pad') for the purpose of adhering the device to the patient's body surface (column 10, lines 55-64). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the Bartelt et al. device with the housing and pad configuration of Cormier et al. for the same advantage of being able to adhere the device directly to the patient's body (motivation to combine provided by Cormier et al., column 10, lines 55-64).

Regarding claim 5, Bartelt et al. discloses the instant invention substantially as claimed except for expressly stating the limitation that the electrodes are connected to the impulse generator by two conductive lines. It is well known in the art that a conductive line is an inherent feature of any electrode being connected to a pulse generator or microprocessor. Applicant is directed to an example of prior art that expressly states this claim limitation--Barker'228 discloses the use of two flexible insulated conductive wires (Fig. 1, wires 42") for connecting a pair of spaced co-planar electrodes to the processor. Therefore, because a conductive line connecting an electrode to an impulse generator is an inherent feature of all such systems, this claim limitation does not distinguish the instant application over the prior art.

Regarding claim 6, Bartelt et al. discloses a light emitting device connected to the microprocessor (Fig. 1, intensity display 23, battery warning indicator 30) for indicating an operation status (column 5, lines 13-33).

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Regarding claims 7-9, Bartelt et al. discloses the apparatus wherein the switch includes two buttons to increase and decrease the strength of pulse generation (Fig. 1, on/increase switch 25 and off/decrease switch 26); wherein the strength increasing button is a power-on switch at start and the strength decreasing button is a power-off switch (column 12, lines 36-45).

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Flory whose telephone number is (571) 272-6820. The examiner can normally be reached on M - F 8:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (571) 272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Christopher A. Flory

17 May 2006



George Manuel  
Primary Examiner